



RECEIVED
JUN 13 2003
TC 1700

SEQUENCE LISTING

SUBSTITUTE

RECEIVED

JUN 17 2003

TECH CENTER 1600/2900

<110> Ulrich Schubert
Peter Henklein
Victor Wray

<120> SYNTHETIC PEPTIDE OF REGULATORY VIRUS
PROTEIN R (VPR) OF HUMAN IMMUNODEFICIENCY VIRUS TYPE 1
(HIV-1) AND THE UTILIZATION THEREOF

<130> 151.2USW0

<140> 09/913,927

<141> 2002-01-14

<150> PCT/DE00/00525

<151> 2002-02-19

<150> DE 199 08 752.0

<151> 1999-02-19

<150> DE 199 08 766.0

<151> 1999-02-19

<160> 11

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 1

Met	Glu	Gln	Ala	Pro	Glu	Asp	Gln	Gly	Pro	Gln	Arg	Glu	Pro	Tyr	Asn
1				5				10						15	
Glu	Trp	Thr	Leu	Glu	Leu	Leu	Glu	Glu	Leu	Lys	Ser	Glu	Ala	Val	Arg
			20					25					30		
His	Phe	Pro	Arg	Ile	Trp	Leu	His	Asn	Leu	Gly	Gln	His	Ile	Tyr	Glu
			35				40					45			
Thr	Tyr	Gly	Asp	Thr	Trp	Ala	Gly	Val	Glu	Ala	Ile	Ile	Arg	Ile	Leu
			50				55					60			
Gln	Gln	Leu	Leu	Phe	Ile	His	Phe	Arg	Ile	Gly	Cys	Arg	His	Ser	Arg
65					70					75				80	
Ile	Gly	Val	Thr	Arg	Gln	Arg	Arg	Ala	Arg	Asn	Gly	Ala	Ser	Arg	Ser
				85					90					95	

<210> 2

<211> 47

<212> PRT

SUBSTITUTE

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 2

Met Glu Gln Ala Pro Glu Asp Gln Gly Pro Gln Arg Glu Pro Tyr Asn
1 5 10 15
Glu Trp Thr Leu Glu Leu Leu Glu Glu Leu Lys Ser Glu Ala Val Arg
20 25 30
His Phe Pro Arg Ile Trp Leu His Asn Leu Gly Gln His Ile Tyr
35 40 45

<210> 3

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 3

Glu Thr Tyr Gly Asp Thr Trp Ala Gly Val Glu Ala Ile Ile Arg Ile
1 5 10 15
Leu Gln Gln Leu Leu Phe Ile His Phe Arg Ile Gly Cys Arg His Ser
20 25 30
~~Arg Ile Gly Val Thr Arg Gln Arg Arg Ala Arg Asn Gly Ala Ser Arg~~
35 40 45
Ser

<210> 4

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 4

Gln Arg Glu Pro Tyr Asn Glu Trp Thr Leu Glu Leu Leu Glu Glu
1 5 10 15

<210> 5

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1

SUBSTITUTE

(HIV-1)

<400> 5

Asn Leu Gly Gln His Ile Tyr Glu Thr Tyr Gly Asp Thr Trp Ala
1 5 10 15

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 6

Ile Tyr Glu Thr Tyr Gly Asp Thr Trp Ala Gly Val Glu Ala Ile
1 5 10 15

<210> 7

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 7

Gly Val Glu Ala Ile Ile Arg Ile Leu Gln Gln Leu Leu Phe Ile
1 5 10 15

<210> 8

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R
(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 8

Met Glu Gln Ala Asn Glu Asp Gln Gly Asn Gln Arg Glu Asn Tyr Asn
1 5 10 15
Glu Trp Thr Leu
20

<210> 9

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide of regulatory virus proteins R

SUBSTITUTE

(vpr) of human immunodeficiency virus type 1
(HIV-1)

<400> 9

Glu Leu Leu Glu Glu Leu Lys Ser Glu Ala Val Arg His Phe Asn Arg
1 5 10 15

Ile Trp Leu His
20

<210> 10

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> sVpr66-80

<400> 10

Gln Leu Leu Phe Ile His Phe Arg Ile Gly Cys Arg His Ser Arg
1 5 10 15

<210> 11

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> sVpr76-96

<400> 11

Cys Arg His Ser Arg Ile Gly Val Thr Arg Gln Arg Arg Ala Arg Asn
1 5 10 15

Gly Ala Ser Arg Ser
20